

**CORN AND SOYBEANS: Production Cash Costs
and Returns, Heartland Region, 1999-2000 1/**

Item	Corn		Soybeans	
	1999	2000	1999	2000
	<u>Dollars per Planted Acre</u>		<u>Dollars per Planted Acre</u>	
Gross value of production: (excluding direct Government payments)				
Total, gross value of production	236.64	259.36	186.06	199.80
Operating costs:				
Seed	30.71	30.64	18.41	18.30
Fertilizer, lime, and gypsum	41.56	41.60	7.25	7.23
Soil conditioners	0.10	0.10	0.08	0.14
Manure	0.37	0.36	0.88	0.94
Chemicals	29.95	30.51	25.56	22.58
Custom operations 2/	10.73	10.96	5.90	5.83
Fuel, lube, and electricity	21.08	26.41	5.32	7.78
Repairs	15.62	15.98	9.11	9.50
Other variable cash expenses 3/	0.00	0.00	0.00	0.00
Interest on operating capital	3.50	4.51	1.71	2.08
Total, operating costs	153.62	161.07	74.22	74.38
Allocated overhead:				
Hired labor	2.34	2.35	1.32	1.35
Opportunity cost of unpaid labor	30.92	31.80	17.97	18.93
Capital recovery of machinery and equipment	65.70	67.32	49.01	50.96
Opportunity cost of land (rental rate)	97.32	100.73	88.38	90.65
Taxes and insurance	6.30	6.47	6.82	7.04
General farm overhead	10.86	11.11	14.55	14.94
Total, allocated overhead	213.44	219.78	178.05	183.87
Total costs listed	367.06	380.85	252.27	258.25
Value of production less total costs listed	-130.42	-121.50	-66.21	-58.45
Value of production less operating costs	83.02	98.29	111.84	125.42
Supporting information:				
Yield (bu./planted acre)	141	148	42	45
Price (dollars per bushel at harvest)	1.67	1.75	4.43	4.44
Enterprise size (planted acres) 4/	223	223	225	225
Production practices: 4/				
Irrigated (percent)	6	6	2	2
Dryland (percent)	94	94	98	98

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS websites listed below.

2/ Cost of custom operations, technical services, and commercial drying.

3/ Cost of purchased irrigation water.

4/ Developed from survey base year 1996, for corn. Developed from base year, 1997, for soybeans.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/Data/CostsAndReturns/testpick.htm)

WHEAT: Production Cash Costs and Returns, Northern Plains Region, 1993-2000 1/ 2/

Item	1993	1994	1995	1996	1997	1998	1999	2000
<u>Dollars per Planted Acre</u>								
Gross value of production: (excluding direct Government payments)								
Wheat	102.82	92.18	120.59	143.56	93.61	100.10	85.49	83.98
Wheat straw	0.64	0.60	0.51	0.60	0.74	1.74	1.42	1.67
Total, gross value of production	103.46	92.78	121.10	144.16	94.35	101.84	86.91	85.65
Cash expenses:								
Seed	6.45	7.83	7.44	8.93	7.64	7.64	6.36	6.19
Fertilizer, lime, and gypsum	9.38	12.25	15.34	15.63	14.85	14.78	13.46	13.91
Chemicals	8.08	7.61	7.98	8.27	8.33	10.61	10.28	10.15
Custom operations	2.68	2.54	2.59	2.72	2.64	4.04	3.82	4.00
Fuel, lube, and electricity	7.81	5.82	5.99	7.12	6.74	4.25	4.16	6.06
Repairs	7.41	12.07	12.51	14.09	12.77	8.10	8.85	9.85
Hired labor	3.85	2.16	2.30	2.39	2.52	1.45	1.48	1.60
Other variable cash expenses 3/	0.01	0.03	0.03	0.03	0.03	0.16	0.16	0.16
Total, variable cash expenses	45.67	50.31	54.18	59.18	55.52	51.03	48.57	51.92
General farm overhead	6.01	4.18	5.45	4.54	5.35	6.32	6.42	6.49
Taxes and insurance	10.22	7.83	8.83	8.67	9.61	3.76	3.81	3.85
Interest	8.98	7.61	10.68	9.39	9.47	1.19	1.11	1.45
Total, fixed cash expenses	25.21	19.62	24.96	22.60	24.43	11.27	11.34	11.79
Total, cash expenses	70.88	69.93	79.14	81.78	79.95	62.04	59.91	63.71
Gross value of production less cash expenses	32.58	22.85	41.96	62.38	14.40	39.80	27.00	21.94
Harvest-period price (dollars/bu.)	3.39	3.31	4.31	4.86	3.81	2.91	2.68	2.50
Yield (bu./planted acre)	30.33	27.85	27.98	29.54	24.57	34.40	31.90	33.60

1/ Data for 1993-1997 refer to the Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Data for 1998 and later refer to the Northern Great Plains Region which includes North Dakota, South Dakota, and parts of Montana, Wyoming, Nebraska and Minnesota.

3/ Cost of purchased irrigation water and baling.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/Data/CostsAndReturns/testpick.htm)

BARLEY: Production Cash Costs and Returns, Northern Plains Region, 1993-2000 1/

Item	1993	1994	1995	1996	1997	1998	1999	2000
<u>Dollars per Planted Acre</u>								
Gross value of production: (excluding direct Government payments)								
Barley	77.38	89.47	109.22	139.00	91.83	79.90	73.27	68.82
Barley straw	2.18	1.94	1.87	1.89	2.67	2.07	1.79	2.02
Total, gross value of production	79.56	91.41	111.09	140.89	94.50	81.97	75.06	70.84
Cash expenses:								
Seed	5.16	5.22	5.72	7.63	6.77	6.30	5.73	5.84
Fertilizer, lime, and gypsum	12.27	13.47	16.77	17.11	16.68	14.49	13.52	13.80
Chemicals	6.75	7.29	7.69	7.86	7.97	8.11	8.14	7.77
Custom operations	2.81	3.09	3.46	3.41	3.39	3.49	3.68	3.64
Fuel, lube, and electricity	7.75	7.22	7.42	8.85	8.59	7.55	7.72	10.28
Repairs	11.50	12.69	13.04	15.21	13.87	14.08	14.25	14.91
Hired labor	3.67	3.55	3.80	3.98	4.40	4.50	4.65	4.88
Other variable cash expenses 2/	0.77	0.81	0.86	0.98	1.04	1.06	1.32	1.14
Total, variable cash expenses	50.68	53.34	58.76	65.03	62.71	59.58	59.01	62.26
General farm overhead	5.04	6.11	7.27	7.28	7.58	6.07	5.77	5.82
Taxes and insurance	9.37	10.90	11.87	12.86	12.13	11.14	10.39	10.70
Interest	8.66	9.96	13.01	13.70	12.20	11.33	11.40	11.40
Total, fixed cash expenses	23.07	26.97	32.15	33.84	31.91	28.54	27.56	27.92
Total, cash expenses	73.75	80.31	90.91	98.87	94.62	88.12	86.57	90.18
Gross value of production less cash expenses	5.81	11.10	20.18	42.02	-0.12	-6.15	-11.51	-19.34
Harvest-period price (dollars/bu.)	1.79	1.93	2.47	2.82	2.11	1.69	1.73	1.59
Yield (bu./planted acre)	43.23	46.36	44.22	49.29	43.52	47.28	42.35	43.28

1/ The Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Cost of purchased irrigation water and baling.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/Data/CostsAndReturns/testpick.htm)

OATS: Production Cash Costs and Returns, North Central Region, 1993-2000 1/

Item	1993	1994	1995	1996	1997	1998	1999	2000
	<u>Dollars per Planted Acre</u>							
Gross value of production: (excluding direct Government payments)								
Oats	66.72	68.92	71.40	119.06	104.46	64.03	68.26	69.90
Oats straw	28.30	44.21	37.98	44.21	49.88	44.21	45.34	46.48
Total, gross value of production	95.02	113.13	109.38	163.27	154.34	108.24	113.60	116.38
Cash expenses:								
Seed	9.48	9.29	8.91	9.67	10.10	9.72	9.02	8.30
Fertilizer, lime, and gypsum	12.46	16.71	20.61	20.12	20.09	19.10	17.90	18.24
Chemicals	0.86	1.15	1.19	1.26	1.27	1.27	1.26	1.25
Custom operations 2/	5.96	6.08	5.69	5.75	5.71	5.73	5.75	5.76
Fuel, lube, and electricity	6.69	6.64	4.08	4.19	4.33	3.54	3.72	5.52
Repairs	6.01	9.61	8.03	6.50	7.63	7.10	6.70	6.57
Hired labor	6.07	1.64	1.58	1.73	1.81	1.91	2.00	2.18
Other variable cash expenses 3/	0.00	1.63	1.40	1.63	1.84	1.63	1.67	1.71
Total, variable cash expenses	47.53	52.75	51.49	50.85	52.78	50.00	48.02	49.53
General farm overhead	4.74	4.58	4.83	4.52	5.31	5.01	5.08	5.21
Taxes and insurance	22.67	17.33	19.00	20.15	20.15	19.58	20.15	21.16
Interest	4.18	5.44	6.22	6.14	6.17	6.50	6.13	6.48
Total, fixed cash expenses	31.59	27.35	30.05	30.81	31.63	31.09	31.36	32.85
Total, cash expenses	79.12	80.10	81.54	81.66	84.41	81.09	79.38	82.38
Gross value of production less cash expenses	15.90	33.03	27.84	81.61	69.93	27.15	34.22	34.00
Harvest-period price (dollars/bu.)	1.41	1.23	1.28	2.02	1.62	1.09	1.10	1.02
Yield (bu./planted acre)	47.32	56.03	55.78	58.94	64.48	58.74	62.05	68.53

1/ The North Central Region includes Minnesota, Iowa, Wisconsin, Illinois, Michigan, and Ohio.

2/ Cost of custom operations and technical services.

3/ Cost of baling.

Note: Survey base changed in 1994.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

SUGARBEETS: Production Cash Costs and Returns, Red River Valley, 1993-2000 1/

Item	1993	1994	1995	1996	1997	1998	1999	2000
	<u>Dollars per Planted Acre</u>							
Gross value of production:								
Beets - gross value of production	591.61	852.36	685.85	851.03	697.50	733.42	739.11	712.36
Cash expenses:								
Seed	37.53	39.89	41.15	42.91	44.81	46.39	45.55	44.18
Fertilizer	28.68	32.78	39.90	41.68	39.86	35.68	33.83	32.72
Chemicals	66.30	66.79	68.13	71.12	71.13	71.43	70.62	68.06
Custom operations	19.88	24.78	24.12	23.93	23.30	25.78	24.79	25.32
Fuel and lubrication	18.20	18.46	17.85	21.87	20.73	18.43	19.18	26.42
Repairs	24.48	29.87	28.93	29.37	31.53	33.53	34.38	34.22
Hired labor	68.50	66.12	69.33	77.02	83.06	86.06	84.88	90.51
Purchased irrigation water	0.04	0.04	0.04	0.04	0.05	0.05	0.04	0.05
Freight and dirt hauling charges	8.92	9.93	9.55	11.93	11.81	11.25	10.85	14.15
Miscellaneous 2/	14.00	13.85	14.47	16.54	16.94	15.71	15.77	17.78
Hauling allowance (-)	-8.33	-9.50	-9.14	-11.39	-11.36	-10.75	-10.36	-13.21
Total, variable cash expenses	278.20	293.01	304.33	325.02	331.86	333.56	329.53	340.20
General farm overhead	30.64	30.16	30.43	20.75	30.90	28.98	29.48	30.20
Taxes and insurance	39.40	35.88	39.36	33.23	39.24	40.39	40.76	41.81
Interest	45.18	41.90	45.83	32.88	41.99	48.63	49.59	52.38
Total, fixed cash expenses	115.22	107.94	115.62	86.86	112.13	118.00	119.83	124.39
Total, cash expenses	393.42	400.95	419.95	411.88	443.99	451.56	449.36	464.59
Gross value of production less cash expenses	198.19	451.41	265.90	439.15	253.51	281.86	289.75	247.77
Season-average price (dollars/ton)	40.97	41.66	38.38	46.76	38.43	35.21	37.16	37.16
Yield (net tons/planted acre)	14.44	20.46	17.87	18.20	18.15	20.83	19.89	19.17

1/ The Red River Valley includes Minnesota and eastern North Dakota.

2/ Includes costs deducted by the processor from the net payment and noncash benefits.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

**HOG PRODUCTION: Farrow-to-Finish, Farrow-to-Feeder,
Feeder Pig-to-Finish, Cash Costs and Returns, Heartland Region, 2000 1/**

Item	All Hog Producers	Farrow to Finish	Farrow to Feeder 2/	Feeder Pig to Finish
	<u>Dollars per Cwt Gain 3/</u>			
Gross value of production:				
Market hogs	41.58	40.34	1.97	50.56
Feeder pigs	11.39	0.85	122.29	0.23
Cull stock	1.28	2.18	3.26	0.02
Breeding stock	0.51	0.20	0.32	0.02
Inventory change	-0.13	0.10	-5.71	0.86
Other income 4/	1.46	1.41	1.21	1.59
Total gross value of production	56.09	45.08	123.34	53.28
Operating costs:				
Feed:				
Grain	6.42	8.11	1.83	5.05
Protein sources	6.21	8.60	0.95	3.84
Complete mixes	7.45	4.41	24.09	8.96
Other feed items 5/	0.21	0.35	0.22	0.08
Total feed costs	20.29	21.47	27.09	17.93
Other:				
Feeder pigs	14.40	0.08	0.71	32.35
Veterinary and medicine	1.21	1.63	2.74	0.53
Bedding and litter	0.04	0.05	0.05	0.02
Marketing	0.62	0.34	3.69	0.53
Custom services	0.31	0.27	0.28	0.37
Fuel, lube, and electricity	1.54	1.64	3.96	0.98
Repairs	0.86	1.17	1.09	0.42
Other operating costs 6/	0.03	0.03	0.04	0.03
Interest on operating capital	1.13	0.77	1.14	1.53
Total operating costs	40.43	27.45	40.79	54.69
Allocated overhead:				
Hired labor	2.27	2.59	11.30	0.42
Opportunity cost of unpaid labor	5.94	7.73	7.80	3.43
Capital recovery of machinery and equipment	10.73	11.63	26.32	6.75
Opportunity cost of land (rental rate)	0.05	0.06	0.07	0.02
Taxes and insurance	0.50	0.53	0.95	0.39
General farm overhead	1.00	1.10	1.54	0.79
Total allocated overhead	20.49	23.64	47.98	11.80
Total costs listed	60.92	51.09	88.77	66.49
Value of production less total costs listed	-4.83	-6.01	34.57	-13.21
Value of production less operating costs	15.66	17.63	82.55	-1.41
Supporting information:				
Production arrangement (percent of production) 7/				
Independent	71	99	23	48
Under contract	29	1	77	52
Size of operation (head sold/removed)				
Market hogs	1,607	1,424	65	2,351
Feeder pigs	875	47	8,535	13

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website.

2/ Farrow to Feeder data are for the United States (Heartland Region data are not available).

3/ Cwt gain = (cwt sold - cwt purchased) ÷ cwt inventory change.

4/ Value of manure production.

5/ Milk replacer, milk, milk by-products, antibiotics, and other medicated additives.

6/ Costs for odor control and fees, permits, licenses, and other regulatory costs.

7/ Developed from survey base year, 1998.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/Data/CostsandReturns/Testpick.htm)

COW-CALF: Production Cash Costs and Returns, Heartland Region, 1999-2000 1/

Item	1999	2000
	<u>Dollars per Bred Cow</u>	
Gross value of production:		
Steer calves	160.38	191.23
Heifer calves	108.78	129.55
Yearling steers	33.79	37.75
Yearling heifers	10.30	11.43
Other cattle	62.60	66.87
Total, gross value of production	380.28	441.36
Operating costs:		
Feeder cattle	22.43	25.64
Feed:		
Concentrates and other feed	24.11	24.76
Supplemental feed	31.30	30.65
Harvested forages	186.79	190.00
Cropland pasture	13.28	13.10
Private pasture	65.81	68.54
Public land	0.35	0.37
Total feed costs	321.64	327.42
Other:		
Veterinary and medicine	40.91	41.64
Bedding and litter	1.23	1.22
Marketing	4.43	4.53
Custom operations	42.57	43.42
Fuel, lube, and electricity	16.20	16.19
Repairs	30.79	31.43
Interest on operating inputs	12.46	15.31
Total, variable operating costs	492.66	506.80
Allocated overhead:		
Hired labor	0.52	0.54
Opportunity cost of unpaid labor	194.62	200.12
Capital recovery cost of machinery and equipment	239.25	254.91
Opportunity cost of land	5.22	5.42
Taxes and insurance	42.84	43.78
General farm overhead	78.99	80.63
Total, allocated overhead	561.45	585.40
Total cost listed	1,054.11	1,092.20
Value of production less total costs listed	-673.83	-650.84
Value of production less operating costs	-112.38	-65.44

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website listed below.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (<http://www.ers.usda.gov/Data/CostsAndReturns/testpick.htm>)

MILK: Production Cash Costs And Returns, Upper Midwest Region, 1992-2000 1/

Item	1992	1993	1994	1995	1996	1997	1998	1999	2000
	<u>Dollars per Cwt.</u>								
Gross value of production:									
Milk	13.11	12.89	13.04	12.83	14.74	13.32	15.48	13.97	11.91
Cattle	1.56	1.24	1.15	1.00	0.89	0.97	0.94	1.03	1.07
Other income 2/	0.19	0.60	0.64	0.76	0.77	0.75	0.68	0.66	0.67
Total, gross value of production	14.86	14.73	14.83	14.59	16.40	15.04	17.10	15.66	13.65
Cash expenses:									
Feed:									
Concentrates	2.85	3.68	3.77	3.53	4.19	4.53	4.07	3.66	3.57
By-products	0.08	0.11	0.11	0.11	0.11	0.12	0.13	0.12	0.12
Liquid whey 3/	--	0.14	0.14	0.15	0.16	0.17	0.18	0.13	0.12
Hay	1.07	1.31	1.15	0.98	1.04	1.36	1.14	0.80	0.73
Silage	1.05	1.90	1.66	1.41	1.51	1.99	1.67	1.15	1.04
Pasture and other forage	0.04	0.11	0.10	0.13	0.16	0.12	0.14	0.15	0.16
Total feed costs	5.09	7.25	6.93	6.31	7.17	8.29	7.33	6.01	5.74
Other:									
Hauling and marketing	0.50	0.52	0.56	0.52	0.50	0.58	0.58	0.58	0.60
Artificial insemination	0.15	0.16	0.17	0.16	0.15	0.18	0.17	0.17	0.18
Veterinary and medicine	0.25	0.45	0.48	0.44	0.43	0.50	0.49	0.50	0.52
Fuel, lube, and electricity	0.23	0.59	0.57	0.57	0.62	0.61	0.56	0.56	0.69
Machinery and building repairs	0.56	0.96	1.02	1.04	1.01	1.09	1.13	1.14	1.19
Hired labor	0.49	0.65	0.65	0.58	0.56	0.53	0.50	0.49	0.45
DHIA fees	0.05	0.07	0.08	0.07	0.07	0.08	0.08	0.08	0.08
Dairy assessment	0.13	0.14	0.17	0.16	0.03	0.00	0.00	0.00	0.00
Other variable cash expenses 4/	0.24	0.63	0.68	0.66	0.65	0.74	0.73	0.73	0.76
Total, variable cash expenses	7.69	11.42	11.31	10.51	11.19	12.60	11.57	10.26	10.21
General farm overhead	0.57	0.59	0.64	0.67	0.65	0.73	0.75	0.73	0.72
Taxes and insurance	0.46	0.34	0.38	0.38	0.43	0.42	0.46	0.39	0.39
Interest	0.79	0.99	1.01	1.14	1.16	1.13	1.29	1.33	1.34
Total, fixed cash expenses	1.82	1.92	2.03	2.19	2.24	2.28	2.50	2.45	2.45
Total, cash expenses	9.51	13.34	13.34	12.70	13.43	14.88	14.07	12.71	12.66
Gross value of production less cash expenses	5.35	1.39	1.49	1.89	2.97	0.16	3.03	2.95	0.99

1/ The Upper Midwest Region includes Minnesota, Wisconsin, Michigan, and South Dakota.

2/ Includes the dairy enterprise share of receipts from cooperative patronage dividends, assessment refunds, renting or leasing of dairy animals, manure sales, and insurance indemnity payments.

3/ Not available prior to 1993.

4/ Includes the dairy enterprise share of expenses for bedding and litter, and custom services and supplies.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)